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Varietal Description of Stallion Spring Canola

Origin and breeding

Stallion, tested as SV8525953, was developed by Svalof AB, Svalov, Sweden. This variety was derived from the cross OAC Triton x Global made in 1983. The progeny were advanced to the F_3 generation using the pedigree selection system. A single F_2 plant was selected on the basis of yield, canola quality and herbicide resistance. The progeny were maintained in bulk to form the parental material of Stallion. This variety was originally granted a regional registration in eastern Canada only. The registration was expanded to include all provinces of Canada on March 21, 1990.

Varietal characteristics

Plant characteristics

Cotyledon: medium width

Seedling growth: upright

Stem: weak anthocyanin

Leaves: medium green, slightly lighter green than Topas; medium waxy bloom; glabrous; weak lobe development and margin indentation; rounded tip

Flowers: medium yellow; buds located immediately below apical meristem; slightly later than Westar and OAC Triton in flowering; anther dotting present

Pods: medium length and width with medium length beak; semi-erect habit

Plant height: slightly taller than OAC Triton

Maturity: later than Westar in western Canada

Lodging resistance: moderate; better than Tribute; poorer than Global

Shattering resistance: fair

Disease reaction: moderately tolerant to root rot (*Rhizoctonia solani*); susceptible to blackleg (*Leptosphaeria maculans*), resistant to race 7 of white rust (*Albugo candida*)

Herbicide reaction: tolerant to triazines

Seed characteristics

Coat: black

Oil content: lower than Westar; slightly higher than OAC Triton

Protein content: lower than OAC Triton, higher than Westar

Erucic acid content: similar to OAC Triton

Glucosinolate content: less than OAC Triton or Westar

Chlorophyll content: medium; higher than that of Tribute

Performance

Stallion has demonstrated good yield, lodging resistance and oil and glucosinolate content as compared with OAC Triton in eastern Canada. Stallion has also shown similar erucic acid content and lower protein content than OAC Triton in these trials. In western Canada, Stallion has demonstrated better yields than Tribute and good lodging resistance, although it is later in maturity than Tribute.

Maintenance of breeder seed

Svalof AB, Svalov, Sweden

Canadian Distributor

Bonis and Co. Ltd.

Recommended by:

Ontario Oil and Protein Seed Crops Committee

Supported by:

Western Canada Canola/Rapeseed Recommending Committee

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Table 1. Yield (kg/ha) of Stallion and OAC Triton, Ontario Oil and Protein Seed Crops Committee, 1987-1988

	1987						1988				
Variety	Flora	Dundalk	Stayner	Brussels	N.L.	Ottawa	Flora	Dundalk	Shelb*	N.L.*	Mean
Stallion	1704	2046	1450	1653	2649	1770	388	1486	973	2094	1622
OAC Triton	1384	1654	1513	1755	2339	1324	306	1289	1125	1688	1439

* Shelburne, New Liskeard

Table 2. Agronomic performance of Stallion and OAC Triton, Ontario Oil and Protein Seed Crops Committee, 1987-1988

Variety	Maturity (d)	Plant Height (cm)	Lodging (1-5)**	1000-seed wgt. (g)	Oil (%)	Protein (%)	E.A.* (%)	Glu.* (ug/g)
Stallion	99	102	1.6	3.0	37.8	24.4	0.1	6.1
OAC Triton	97	98	2.2	2.9	37.1	25.6	0.1	12.7

* E.A. = erucic acid; Glu. = glucosinolates

** 1 = best resistance

Table 3. Performance of Stallion and check varieties, Eastern Co-operative Canola Trials Western Locations*, 1987-1988

Variety	Yield (kg/ha)	Flowering (days)	Maturity (days)	Plant Height (cm)	Lodging (1-5)	1000-seed wgt.(g)	Green Seed (%)
1987							
Stallion	2000	48	106	116	3.0	3.1	3.8
OAC Triton	1733	47	104	103	2.9	3.3	2.5
1988							
Stallion	1925	55	104	115	1.9	3.2	9.6
OAC Triton	1619	52	100	95	2.8	3.5	1.9

* Rosebank, Edmonton, Lethbridge

Table 4. Performance of Stallion and OAC Triton, Eastern Co-operative Canola Trials, non-Ontario locations, 1987-1988

Variety	Yield (kg/ha)	Flowering (days)	Maturity (days)	Plant Height (cm)	Lodging (1-5)	1000-seed wgt. (g)	Green Seed (%)	Brown Seed (%)
1987								
St. Jean								
Stallion	3072	61	103	128	2.8	3.8	1.0	—
OAC Triton	2808	63	103	126	2.5	3.7	0.0	—
1988								
St. Jean								
Stallion	1583	52	93	129	3.0	2.95	2.5	7.0
OAC Triton	1141	52	90	105	3.8	3.10	0.5	4.0
Truro								
Stallion	1538	56	—	—	1.1	3.46	1.0	2.0
OAC Triton	1486	55	—	—	3.4	3.60	1.0	3.0

Table 5. Yield (00's kg/ha) of Stallion and check varieties, Western Cooperative Canola/Rapeseed Recommending Committee Trials, 1987-1989

Year	Variety	Elersiie	Indian Head	Ituna	Kelsey	Lashburn	Meath Park	Melfort	Scott	Swan River	Edmt	Sask.	Somme	Mean
						Medium Maturity Zone								
1987	Stallion	—	—	—	—	—	—	25.3	—	—	24.8	20.9	—	23.7
	Tribute	—	—	—	—	—	—	18.7	—	—	18.2	19.9	—	18.9
	Westar	—	—	—	—	—	—	23.7	—	—	30.1	25.4	—	26.4
1988	Stallion	21.6	14.2	6.3	20.5	19.1	15.6	11.0	28.6	24.7	—	—	—	18.0
	Tribute	16.9	12.0	5.7	20.2	17.9	15.5	6.2	21.5	25.7	—	—	—	15.7
	Westar	23.3	23.5	6.1	21.9	21.7	21.5	12.2	30.7	28.3	—	—	—	21.0
1989	Stallion	—	5.4	—	13.7	9.7	13.9	9.1	11.6	19.6	—	1.7	10.0	10.5
	Tribute	—	6.8	—	12.5	10.1	11.5	11.4	9.9	19.2	—	2.4	12.9	10.7
	Westar	—	12.9	—	15.3	11.0	17.8	14.4	15.5	23.4	—	6.3	13.8	14.5

Year	Variety	Brandon	Morden	Carman	Miami	Portage	Rosebank	Winnipeg	Oak River	Mean
					Long Maturity Zone					
1987	Stallion	—	—	23.7	18.9	—	—	17.5	—	20.0
	Tribute	—	—	25.0	17.5	—	—	16.8	—	19.8
	Westar	—	—	28.0	23.3	—	—	23.4	—	24.9
1988	Stallion	—	—	—	—	23.7	30.7	—	—	27.3
	Tribute	—	—	—	—	16.7	26.9	—	—	21.8
	Westar	—	—	—	—	28.4	28.2	—	—	28.3
1989	Stallion	22.0	10.2	—	—	10.0	—	4.6	11.3	11.6
	Tribute	20.0	12.0	—	—	8.9	—	4.8	11.3	11.4
	Westar	30.2	21.3	—	—	16.5	—	10.3	14.4	18.5

Year	Variety	Lethbridge	Outlook	Mean
		Irrigated Zone		
1987	Stallion	19.5	—	19.5
	Tribute	17.4	—	17.4
	Westar	23.7	—	23.7
1988	Stallion	20.9	41.5	31.2
	Tribute	17.1	36.2	26.6
	Westar	29.7	37.9	33.8
1989	Stallion	22.8	15.9	19.4
	Tribute	19.1	14.2	16.6
	Westar	27.6	18.6	23.1

Table 6. Performance of Stallion and check varieties, Western Co-operative Canola/Rapeseed Recommending Committee Trials, 1987-1989*

Variety	Oil (%)	Protein (%)	Maturity (days)	Height (cm)	Lodging (1-5)**	Glucosinolates (μm/g)	Chlorophyll (ppm)	Blackleg (0-100)***
Stallion	39.9	46.9	95	101	2.4	9.2	20.2	23.1
Tribute	39.1	47.6	91	87	3.3	11.7	15.9	31.7
Westar	42.5	46.0	91	95	2.5	11.8	—	42.0

* Locations: Ellerslie, Indian Head, Ituna, Kelsey, Lashburn, Meath Park, Melfort, Scott, Swan River, Edmonton, Saskatoon, Somme, Brandon, Morden, Carman, Miami, Portage la Prairie, Rosebank, Winnipeg, Oak River, Lethbridge and Outlook

** 1 = no lodging

*** 0 = no disease

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